

- 1a) $P(t) = 68500(1.028)^n$
b) 132,900 people
c) The year 2097

- 2a) $V(t) = 38000(0.856)^n$
b) 14.4%
c) \$1713
d) 38 years

- 3a) $V(t) = 140000(0.8)^n$
b) \$45875
c) \$4926
d) 3.79 years
e) 14.1 years

- 4a) $P(t) = 230 \cdot (1.7)^n$
b) 46368 floofs
c) 1.88 billion floofs
d) 7.11 months
e) 15.79 months

- 5a) $P(t) = 43 \cdot (1.03)^n$
b) \$57.79
c) \$90.03
d) 8.3 years, so 2018
e) 30.2 years, so 2040